SEQUENCE LISTING

<110>   Chen, Chao-Ying

<120>   A NOVEL NUCLEIC ACID ENCODING BETA-1,3-GLUCANASE FROM LILY

<130>   p03001

<160>   2

<170>   PatentIn version 3.2

<210>   1

<211>   337

<212>   PRT

<213>   lily

<400>   1

```
Met Ala Ala Gln His Ile Ile Ser Met Ala Ala Met Ala Ser Leu Leu
1               5                   10                  15


Val Val Leu Ser Ala Ile Pro Arg Gly Val Glu Ser Ile Gly Val Cys
            20                  25                  30


Asn Gly Met Asp Gly Asp Asn Leu Pro Gln Pro Ala Asp Val Val Asn
        35                  40                  45


Leu Tyr Lys Ser Asn Asn Ile Ala Gly Met Arg Leu Tyr Ser Pro Asp
    50                  55                  60


Gln Ala Thr Leu Gln Ala Leu Gln Gly Ser Asn Ile Tyr Leu Ile Leu
65                  70                  75                  80


Asp Val Pro Asn Ser Asp Leu Gln Asn Ile Ala Ser Asp Gln Ser Ala
                85                  90                  95


Ala Thr Asn Trp Val Gln Thr Asn Val Gln Ala Tyr Pro Asn Val Ala
                100                 105                 110


Phe Arg Tyr Ile Ala Val Gly Asn Glu Val Ile Pro Gly Gly Gln Ala
            115                 120                 125


Gln Tyr Val Leu Pro Ala Met Asn Asn Ile Gln Ser Ala Leu Ser Ser
    130                 135                 140


Ala Gly Leu Gln Asn Ile Lys Val Ser Thr Ser Val Ser Phe Gly Val
145                 150                 155                 160


Val Gly Thr Ser Tyr Pro Pro Ser Ala Gly Ser Phe Ser Ser Asp Ala
                165                 170                 175
```

Ser Ser Thr Leu Gly Pro Ile Ile Gln Phe Leu Ala Ser Asn Gly Ser
              180   185   190

Pro Leu Leu Ala Asn Ile Tyr Pro Tyr Leu Ser Tyr Ala Gly Asn Ser
          195   200   205

Gly Ser Ile Asp Leu Ser Tyr Ala Leu Phe Thr Ala Ser Gly Thr Val
    210   215   220

Val Gln Asp Gly Ser Tyr Ala Tyr Asn Asn Leu Phe Asp Ala Met Val
225   230   235   240

Asp Ala Leu Tyr Ser Ala Leu Glu Ser Ala Gly Gly Pro Asn Val Pro
              245   250   255

Val Val Val Ser Glu Ser Gly Trp Pro Ser Ala Gly Gly Thr Ala Ala
          260   265   270

Thr Val Ser Asn Ala Gln Thr Tyr Asn Ser Asn Leu Ile Asn His Val
          275   280   285

Gly Gln Gly Thr Pro Lys Arg Pro Gly Ala Ile Glu Thr Tyr Ile Phe
    290   295   300

Ala Met Phe Asn Glu Asp Gln Lys Gln Pro Gln Gly Ile Glu Asn Asn
305   310   315   320

Phe Gly Leu Phe Tyr Pro Asn Glu Gln Pro Val Tyr Ser Ile Ser Phe
              325   330   335

Thr

<210> 2

<211> 1011

<212> DNA

<213> lily

<400> 2

atggcagctc agcacatcat ctccatggct gccatggcat ccctccttgt agtactctcg   60

gcaatcccga gaggcgtgga atccattggg gtctgcaatg gaatggacgg tgacaacctc   120

ccccagcccg ccgacgtcgt caacctctac aagtccaaca acatagctgg catgcgactc   180

tacagccccg accaagccac tctccaggcc ctccagggct ctaacatcta cctcatcctc   240

gacgtcccca actccgacct ccaaaacatt gcctccgacc aatccgccgc caccaactgg   300

gtccaaacca acgtccaagc ctacccaaac gttgccttcc gatacatcgc cgtcggaaac   360

```
gaagtcatcc ccggcggcca agctcagtac gtcctcccag ccatgaacaa catacagtcc    420

gccctctcct ctgccggcct tcagaacatc aaggtctcca catcagtctc cttcggcgtc    480

gtcggtacct catatccccc ctcagctggc tccttctctt ccgatgcatc gtcgacattg    540

ggtccaatca tacagtttct agccagcaat ggctccccat tacttgccaa catctacccc    600

tacttgagct atgctggcaa ctccggatcc atcgacctct catacgccct ctttactgca    660

tctggtacag tcgtacagga cgggtcctac gcttacaaca acctcttcga tgccatggtc    720

gacgcattgt actcggccct ggagagcgcc ggagggccga atgtccctgt tgtcgtgtcg    780

gagagtggct ggccgtcagc gggcgggaca gcggcgacgg tgtctaatgc gcagacttac    840

aattccaatt tgatcaacca tgtgggtcag gggacgccga agaggccagg ggcgattgag    900

acctacatat ttgccatgtt caacgaggat cagaagcagc cgcaagggat tgagaataac    960

tttgggctgt tttaccctaa cgaacagcct gtctattcga tcagcttcac t            1011
```